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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/647,898	/647,898 08/25/2003		Thomas H. Hebert	380803.00052	2334
34802	7590	06/01/2005		EXAMINER	
HOLLANI		GHT LLP TEIN/ IP DEPT.	ZEC, FILIP		
POST OFFI				ART UNIT	PAPER NUMBER
TAMPA, FL 33601-1288				3744	

DATE MAILED: 06/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		<i>.</i>
	Application No.	Applicant(s)
Office Action Summary	10/647,898	HEBERT, THOMAS H.
Office Action Summary	Examiner	Art Unit
The MAN INO DATE of this community of	Filip Zec	3744
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the c	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	. 136(a). In no event, however, may a reply be tinply within the statutory minimum of thirty (30) day is will apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE.	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on <u>15 I</u> 2a)□ This action is FINAL . 2b)⊠ Thi 3)□ Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro	
Disposition of Claims		
4) Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) 5-6 is/are withdrawr 5) Claim(s) is/are allowed. 6) Claim(s) 1-4 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/	n from consideration.	
Application Papers		
9) The specification is objected to by the Examin 10) The drawing(s) filed on <u>03 August 2004</u> is/are Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct.	: a)⊠ accepted or b)□ objected e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).
11)☐ The oath or declaration is objected to by the E	Examiner. Note the attached Office	Action or form PTO-152.
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat* See the attached detailed Office action for a list	nts have been received. Its have been received in Applicationity documents have been received in Applicationity documents have been received in Application (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)	0 □ 0	(DTO 442)
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Dail 5) Notice of Informal P 6) Other:	

Application/Control Number: 10/647,898 Page 2

Art Unit: 3744

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-4 have been considered but are moot in view of the new ground(s) of rejection. As such, this Office Action is being made non-final to afford the applicants the opportunity to respond to the new grounds of rejection.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent 3,866,439 to Bussjager. Bussjager discloses applicant's basic inventive concept, a dual circuit evaporator coil (17, FIG. 2), wherein individual circuits (23' and 15', FIG. 2) are constructed in a diagonal manner (FIG. 2) with respect to the airflow (arrow from FIG. 2) setting up the active coil to be in contact with the incoming air along the entire surface when the other coil is inactive (col 3, lines 32-36).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person

Art Unit: 3744

having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 2 and 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 3,866,439 to Bussjager, in view of U.S Patent 4,040,268 to Howard. Bussjager discloses applicant's basic inventive concept, a dual circuit evaporator coil wherein individual are constructed in a diagonal manner setting up the active coil to be in touch with the incoming air along the whole surface when the other coil is inactive, substantially as claimed with the exception of stating that the alternating evaporator coils are intertwined. In the description of prior art, Howard teaches the use of two or more separate refrigeration systems wherein one system operates independent of the other (col 1, lines 47-68). In these applications in low heat load conditions, only one system is energized while the second is energized only when high heat load conditions dictate so. When two separate evaporators, arranged in an air path, are employed, they may be intertwined so that all of the air sees all of refrigerant, regardless of which circuit is in operation, or alternatively they may be separate heat exchangers for each circuit. In the case of intertwining evaporators of separate refrigerant circuits, poor humidity control results when only one circuit is operating due to higher overall evaporator temperatures. Therefore, it would have been obvious to one skilled in the art at the time invention was made from the teaching of Howard to modify the system of Bussjager and use two intertwined individual circuits, in an alternating manner, in order to have smaller evaporating surface resulting in a reduced compressor capacity and thus, effective energy saving (col 1, lines 15-20). Application/Control Number: 10/647,898

Art Unit: 3744

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

U.S. Patent 4,201,065 to Griffin, Charles K. teaches a variable capacity vapor compression refrigeration system.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Filip Zec whose telephone number is (571) 272-4815. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Cheryl Tyler can be reached on 571-272-4834. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Filip Zec Examiner

Examiner
Art Unit 3744

SUPERVISORY PATENT EXAMINER

Page 4